

IN THE CLAIMS:

Please cancel claims 1 – 5 and add the following new claims:

1 - 5. (Cancelled)

6. (New) An anti-pinch and electric motor protection device comprising:

a positive temperature coefficient circuit protector having a predetermined temperature threshold, said positive temperature coefficient circuit protector adapted to be in electrical series with a DC circuit to allow current flow in a first direction and in a second opposite direction when said positive temperature coefficient circuit protector is below said threshold and to block current flow in either direction when said positive temperature coefficient circuit protector is above said threshold; and

a diode in parallel with said positive temperature coefficient circuit protector adapted to block current flow in one of said directions.

7. (New) An anti-pinch and electric motor protection device as set forth in claim 6 wherein said positive temperature coefficient circuit protector is a first positive temperature coefficient circuit protector with a first predetermined temperature threshold and said anti-pinch and electric motor protection device further includes:

a second positive temperature coefficient circuit protector having a second predetermined temperature threshold that is higher than said first predetermined temperature threshold of said first positive temperature coefficient circuit protector, said second positive temperature coefficient circuit

protector disposed in electrical series with said first positive temperature coefficient circuit protector, said series connected first and said second positive temperature coefficient circuit protectors adapted to allow current flow in a first direction and in a second opposite direction when both said positive temperature coefficient circuit protectors are below said thresholds and to block current flow in either direction when either said positive temperature coefficient circuit protector is above its threshold.

8. (New) An anti-pinch and electric motor protection circuit as set forth in claim 7 wherein said first predetermined temperature threshold is chosen to represent a first temperature that is indicative of a first excessive current in said motor caused by a motor stall, and wherein said second predetermined temperature threshold is chosen to represent a second temperature that is indicative of a greater excessive current in said motor caused by a motor stall that is higher than said first predetermined temperature threshold.

9. (New) An anti-pinch and electric motor protection device as set forth in claim 8 wherein said first predetermined temperature threshold is approximately 125 degrees C and said second predetermined temperature threshold is approximately 150 degrees C.

10. (New) An anti-pinch and electric motor protection circuit comprising:
a DC motor adapted to accept current flow in a first direction and a second direction so as to operatively rotate said motor in a first angular direction and a second angular direction in response to the application of said first and said second directions of current flow;
a positive temperature coefficient circuit protector having a predetermined temperature threshold, said positive temperature coefficient circuit protector adapted to be in electrical

communication with said DC motor to allow current flow in a first direction and in a second opposite direction when said positive temperature coefficient circuit protector is below said threshold and to block current flow in either direction when said positive temperature coefficient circuit protector is above said threshold; and

a diode in parallel with said positive temperature coefficient circuit protector adapted to block current flow to said motor in one of said directions.

11. (New) An anti-pinch and electric motor protection circuit as set forth in claim 10 wherein said positive temperature coefficient circuit protector is a first positive temperature coefficient circuit protector with a first predetermined temperature threshold and said anti-pinch and electric motor protection device further includes:

a second positive temperature coefficient circuit protector having a second predetermined temperature threshold that is higher than said first predetermined temperature threshold of said first positive temperature coefficient circuit protector, said second positive temperature coefficient circuit protector disposed in electrical series with said first positive temperature coefficient circuit protector and adapted to allow current flow in a first direction and in a second opposite direction when said second positive temperature coefficient circuit protector is below said second threshold and to block current flow in either direction when said second positive temperature coefficient circuit protector is above said second threshold.

12. (New) An anti-pinch and electric motor protection circuit as set forth in claim 11 wherein said first predetermined temperature threshold is chosen to represent a first temperature that is indicative of a first excessive current in said motor, and wherein said second predetermined

temperature threshold is chosen to represent a second temperature that is indicative of a greater excessive current in said motor that is higher than said first predetermined temperature threshold.

13. (New) An anti-pinch and electric motor protection circuit as set forth in claim 12 wherein said diode orientation in said circuit is adapted to cause all said current in said first current direction to flow through said first positive temperature coefficient circuit protector to drive said motor in said first angular direction with no current flow through said diode, said diode orientation is further adapted to allow current to flow in said second direction after said first predetermined temperature threshold is exceeded so that said motor can be driven in said second angular direction.

14. (New) An anti-pinch and electric motor protection circuit as set forth in claim 12 wherein said first predetermined temperature threshold is approximately 125 degrees C and said second predetermined temperature threshold is approximately 150 degrees C.

15. (New) An anti-pinch and electric motor protection circuit comprising:
a DC motor adapted to accept current flow in a first direction and a second direction so as to operatively rotate in a first angular direction and a second angular direction in response to the application of said first and said second directions of current flow;

a first positive temperature coefficient circuit protector having a first predetermined temperature threshold;

a second positive temperature coefficient circuit protector having a second predetermined temperature threshold that is higher than said first predetermined temperature threshold of said first

positive temperature coefficient circuit protector, said second positive temperature coefficient circuit protector disposed in electrical series with said first positive temperature coefficient circuit protector;

said series connected first and said second positive temperature coefficient circuit protectors adapted to be in electrical communication with said DC motor to allow current flow in a first direction and in a second opposite direction when both said positive temperature coefficient circuit protectors are below said thresholds; and

a diode in parallel with said first positive temperature coefficient circuit protector.

16. (New) An anti-pinch and electric motor protection circuit as set forth in claim 15 wherein said first predetermined temperature threshold is chosen to represent a first temperature that is indicative of a first excessive current in said motor, and wherein said second predetermined temperature threshold is chosen to represent a second temperature that is indicative of a greater excessive current in said motor that is higher than said first predetermined temperature threshold.

17. (New) An anti-pinch and electric motor protection circuit as set forth in claim 16 wherein said diode orientation in said circuit is adapted to cause all said current in said first current direction to flow through said first positive temperature coefficient circuit protector to drive said motor in said first angular direction with no current flow through said diode, said diode orientation is further adapted to allow current to flow in said second direction after said first predetermined temperature threshold is exceeded so that said motor can be driven in said second angular direction.

18. (New) An anti-pinch and electric motor protection circuit as set forth in claim 16 wherein said first predetermined temperature threshold is approximately 125 degrees C and said second predetermined temperature threshold is approximately 150 degrees C.